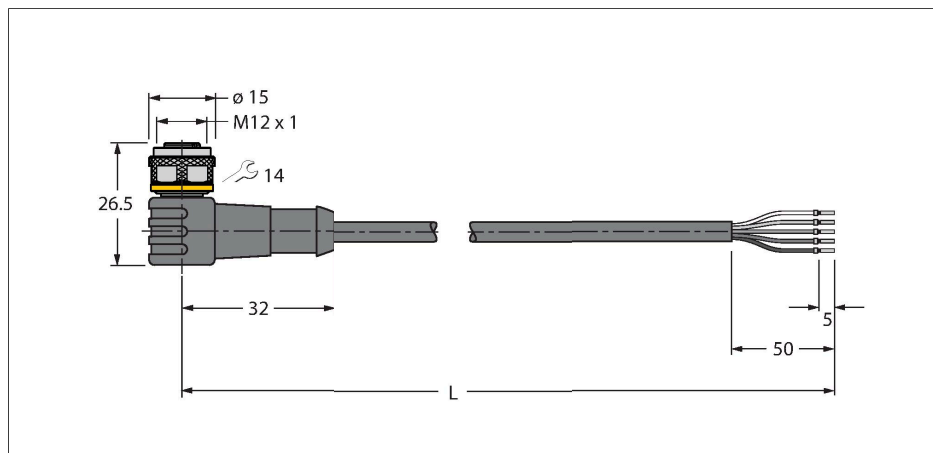


# WKC4.5T-P7X3.1-7.5/TXO3700

## Actuator and Sensor Cable, PUR – Connection Cable

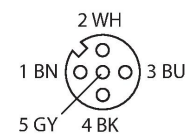


### Features

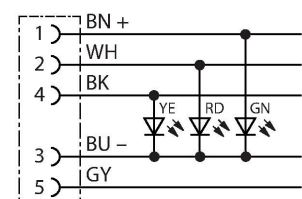


- Female M12, angled, 5-pin
- With 3-color LED (PNP, red, yellow, green)
- Jacket material: PUR
- Jacket color: orange
- Suitable for drag chain use
- Resistant to welding sparks
- Resistant to chemicals, UV radiation and oils
- Flame retardant (FT2 acc. to UL 1581, IEC 60332-2-2)
- Free from halogen, silicone, PVC and LABS
- Particularly resistant to abrasion
- Protection class: IP67, IP69K
- Cable length: 7.5 m

### Contact assignment



### Circuit Diagram



### Technical data

|                                        |                                        |
|----------------------------------------|----------------------------------------|
| Type                                   | WKC4.5T-P7X3.1-7.5/TXO3700             |
| ID                                     | 6633070                                |
| Connector A                            | Female, M12 × 1, Angled, A-coded       |
| Number of Pins                         | 5                                      |
| Contacts                               | Brass, CuZn, Gold-plated               |
| Contact carriers                       | Plastic, TPU, Black                    |
| Connector body                         | Plastic, TPU, Translucent              |
| Coupling nut/screw                     | Brass, CuZn, Nickel-plated             |
| Seal                                   | Plastic, FPM/FKM                       |
| LED display                            | triple LED                             |
| Display operating voltage              | LED, Green                             |
| Display switch state                   | LED, Yellow/red                        |
| Mechanical lifespan                    | > 100 Mating cycles                    |
| Pollution degree                       | 3                                      |
| Protection class                       | IP67, IP69K, Only in screwed condition |
| <b>Cable</b>                           |                                        |
| Cable diameter                         | Ø 7 mm ±0.20                           |
| Cable length                           | 7.5 m                                  |
| Cable jacket                           | PUR, Orange                            |
| Core insulation                        | PP                                     |
| Core cross-section                     | 5 x 0.34 mm²                           |
| Arrangement of strands                 | 42 x 0.1 mm                            |
| Core colors                            | BN, WH, BU, BK, GY                     |
| <b>Electrical properties at +20 °C</b> |                                        |
| Rated voltage                          | 30 V <sub>DC</sub>                     |
| Test voltage                           | 2000 V                                 |
| Current                                | 4 A                                    |

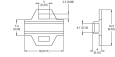
## Technical data

|                                                 |                              |
|-------------------------------------------------|------------------------------|
| Insulation resistance                           | > 30.5 MΩ/km                 |
| forward resistance                              | max. 57 Ω/km                 |
| <b>Mechanical and chemical properties</b>       |                              |
| Bending radius (stationary installation)        | ≥ 5 x Ø                      |
| Bending radius (flexible use)                   | ≥ 10 x Ø                     |
| Bending cycles                                  | ≥ 5 million                  |
| Admissible acceleration                         | max. 5 m/s <sup>2</sup>      |
| Admissible travel path, horizontal              | 5 m (at 5 m/s <sup>2</sup> ) |
| Admissible travel path, vertical                | 2 m (at 5 m/s <sup>2</sup> ) |
| Admissible traversing speed                     | 3.3 m/s                      |
| Torsional stress                                | ± 180 °/m                    |
| Ambient temperature range (stationary)          | -50...+80 °C                 |
| Ambient temperature range (In motion)           | -25...+80 °C                 |
| Ambient temperature during drag chain operation | -25...+60 °C                 |
| Approvals                                       | cULus                        |

## Accessories

|                        |           |                                                                                                                                                                                                                                |                        |           |                                                                                                                                                                                                                                 |
|------------------------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TORQUE-WRENCH-SET-AS   | 6936170   | Torque wrench set; handles with adjustable torque 0.4-1.0 Nm, torque wrench for M8 (SW9), fork wrench for M12 (SW 14)                                                                                                          | BS8151-0               | 6904611   | Field-wireable male connector, M12 × 1, straight, 5-pin, screw terminal connection, cable feedthrough 4.0 to 6.0 mm, core cross-section/terminal capacity 0.14 to 0.75 mm <sup>2</sup> , plastic housing, metal retaining screw |
| BS8251-0               | 6904612   | Field-wireable male connector, M12 × 1, angled, 5-pin, screw terminal connection, cable feedthrough 4.0 to 6.0 mm, core cross-section/terminal capacity 0.14 to 0.75 mm <sup>2</sup> , plastic housing, metal retaining screw  | FW-ERSPM0526-SA-P-0408 | 100002535 | Field-wireable male connector, M12 × 1, straight, 5-pin, push-in connection, cable feedthrough 4.0 to 8.0 mm, core cross-section/terminal capacity 0.14 to 0.75 mm <sup>2</sup> , plastic housing, metal retaining screw        |
| FW-ERSPM0516-SA-S-0408 | 100002289 | Field-wireable male connector, M12 × 1, straight, 5-pin, screw terminal connection, cable feedthrough 4.0 to 8.0 mm, core cross-section/terminal capacity 0.25 to 1.5 mm <sup>2</sup> , plastic housing, metal retaining screw | FW-EWSPM0516-SA-S-0408 | 100002291 | Field-wireable male connector, M12 × 1, angled, 5-pin, screw terminal connection, cable feedthrough 4.0 to 8.0 mm, core cross-section/terminal capacity 0.25 to 1.5 mm <sup>2</sup> , plastic housing, metal retaining screw    |

Accessories

| Dimension drawing                                                                 | Type                  | ID        |                                                                                                                                                                            |
|-----------------------------------------------------------------------------------|-----------------------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | LABEL-HOLDER-FLEX-PVC | 100048170 | PVC label holder for identification of extension cables (TEL/TXL product series); for cable diameters: min. 5 mm; dimensions 4 × 18 mm; delivery unit: 50 pcs. per package |